DOCUMENT RESUME

ED 327 636 CE 056 277

TITLE	Competency Index for Graphic Arts Programs in Missouri. A Crosswalk of Selected Instructional Materials against Missouri's Competency Profile.
INSTITUTION	Missouri Univ., Columbia. Instructional Materials Lab.
SPONS AGENCY	Missouri State Dept. of Elementary and Secondary Education, Jefferson City. Div. of Vocational and Adult Education.
PUB DATE	Jun 90
NOTE	30p.
AVAILABLE FROM	Instructional Materials Lab, University of Missouri, 2316 Industrial Drive, Columbia, MO 65202.
PUB TYPE	Guides - Classroom Use - Guides (For Teachers) (052)
EDRS PRICE	MF01 Plus Postage. PC Not Available from EDRS.
DESCRIPTORS	*Competence; Competency Based Education; *Course Content; Curriculum; *Graphic Arts; *Instructional Materials; *Job Skills; Layout (Publications); Matrices; Paper (Material); *Photocomposition; Postsecondary Education; Secondary Education; Vocational Education
IDENTIFIERS	*Missouri

ABSTRACT

This index was developed to help graphic arts instructors in Missouri use existing instructional materials and keep track of student progress on the VAMS system. The list was compiled by a committee of instructors who selected appropriate references and identified areas that pertained to Missouri competencies. The index lists competencies in these 15 areas: processing job orders; preparing customer layouts; typesetting; producing camera-ready copy and mechanicals; exposing with a camera; processing film and printed material; contacting; performing image assembly operation; proofing; making plates; press operation; finishing operations; paper handling; packaging and preparing for mailing; and performing specialty operations. Each competency is then listed in a matrix that identifies where it appears in one or more of the six texts and one videotape set selected to be used in the course. (KC)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****

ED327636

COMPETENCY INDEX

for Graphic Arts programs in Missouri

A crosswalk of selected instructional materials against

Missouri's competency profile

Instructional Materials Laboratory
University of Missouri-Columbia

June 1990

CE056277

U.S. DEPARTMENT OF EDUCATION
Office of Educational Research and Improvement
EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

☑ This document has been reproduced as received from the person or organization originating it.

☐ Minor changes have been made to improve reproduction quality.

• Points of view or opinions stated in this document do not necessarily represent official OERI position or policy.

"PERMISSION TO REPRODUCE THIS MATERIAL IN MICROFICHE ONLY HAS BEEN GRANTED BY

H. Scott Ohrig

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)."

ABOUT THE PROJECT

This project should help graphic arts instructors use existing curriculum materials and keep track of student progress on the VAMS system. A committee of eight instructors selected appropriate references and identified areas that pertained to Missouri competencies.

The activity which is the subject of this report was supported in whole or in part by funds from the Department of Elementary and Secondary Education, Division of Vocational and Adult Education. However, the opinions expressed herein do not necessarily reflect the position or policies of the Missouri Department of Elementary and Secondary Education or the Division of Vocational and Adult Education, and no official endorsement should be inferred.

REFERENCES USED FOR GRAPHIC ARTS CROSSWALK

Cogoli, 1986	Cogoli, John E. Photo-Offset Fundamentals. 5th ed. Encino, CA: Glencoe Publishing Company, a division of Macmillan, Inc., 1986.
IML, 1988	Hoisington, James, and Joseph Metcalf. Graphic Arts/Offset Lithography. University of Missouri-Columbia: Instructional Materials Laboratory, 1988.
Pr. Techn., 1988	Adams, J. Michael; David D. Faux; Lloyd J. Rieber. Printing Technology. 3rd ed. Albany, NY: Delmar Publishers Inc., 1988.
Compr. Gr. Arts, 1983	Dennis, Ervin A., and John D. Jenkins. Comprehensive Graphic Arts (Instructor's Guide). 2nd ed. Indianapolis, IN: Bobbs-Merrill Educational Publishing, 1983.
MAVCC, 1981-82	Farajollahi, Karim, et. al. Graphic Arts Book One: Orientation, Composition, and Paste-Up. Stillwater, OK: Mid-America Vocational Curriculum Consortium, Inc., 1981.
	Farajollahi, Karim, et. al. Graphic Arts Book Two: Process Camera, Stripping, and Platemaking. Stillwater, OK: Mid-America Vocational Curriculum Consortium, Inc., 1981.
	Farajollahi, Karim, et. al. Graphic Arts Book Three: The Press and Related Processes. Stillwater, OK: Mid-America Vocational Curriculum Consortium, Inc., 1982.
Probs. in Math	Vermeersch, LaVonne, and Charles Southwick. Practical Problems in Mathematics for Graphic Arts. Albany, NY: Delmar Publishers Inc., 1983.
SFCC AVs	Graphic arts videotapes (1/2" VHS). Sedalia, Mo.: The Media Center, State Fair Community College, 1988-1989.

ADVISORY COMMITTEE

Don Forrester
South Co. Tech. Center

Robert "Bob" Leiner
O'Fallon Technical Center

Don Pemberton
Joe Herndon AVTS

Raymond Piontek
North County Tech. Center

Christine Tadrick
Parkway North High School

Don Warford
Carrollton AVTS

Sue Williams
Lake Area Vo-Tech School

Diann Wolff
Four Rivers AVTS

Judith Moore
Industrial Education,
Department of Elementary
and Secondary Education

Diane Davis
Instructional Materials Lab

COMPETENCY LIST

A. Processing Job Orders

1. Check specifications and planning
2. Estimate job costs (space and utilities, labor, and supplies)
3. Compute customer's cost (planning, scheduling)

B. Prepare Customer Layouts

1. Prepare a rough layout
2. Indicate how photographs and headings are to be printed for layout person
3. Indicate percentage of enlargement or reduction required on photos
4. Indicate typefaces and point sizes to be used in typesetting
5. Make dummy layout of multipage printed product for signature specifications
6. Place crop marks on pictures
7. Produce a comprehensive layout
8. Revise layouts to customer specifications
9. Secure photocopied galley proofs in position on comprehensive layout
10. Sketch proposed customer's rough layout

C. Typesetting

1. Justify copy on an impact machine
2. Make heading using press types
3. Make headlines with display typesetter
4. Program and type copy on a photographic input composition machine
5. Process photographic composition galley pages using processor
6. Make photocopies of galleys
7. Proofread all galley copy
8. Code for corrections
9. Distribute corrected proof of copy (to proper departments)
10. Read and compare type composition against customer-approved comprehensive layout
11. Code for typestyles, leading, line length and point sizes
12. Read and compare final layout against customer approved comprehensive layout
13. Set type using hand-set method
14. Make up jobs with machine set type

D. Producing Camera Ready Copy & Mechanicals

1. Draw up base sheet for final paste-up
2. Trim galley sheets
3. Apply adhesives (rubber cement, wax, tape)
4. Check all proportions and sizes with job requirements
5. Crop and size all photographs
6. Use diffusion transfer process to make enlargements or reductions
7. Trim prescreened photographs
8. Keyline pictures
9. Place all illustrations and typed matter in position on base sheet (paste-up)
10. Make alterations on existing photographs
11. Locate and use clip-art
12. Apply dry transfers (lettering, screens)
13. Cut panels for halftones and reverses
14. Cut masking film for multicolor overlays
15. Position and secure overlays and tissues
16. Compare artwork to customer-approved comprehensive layout
17. Check camera-ready copy for photo reproduction quality
18. Photocopy page proofs
19. Return paste-up with corrections marked to composition if required

E. Exposing with a Camera

1. Clean and maintain gallery and darkroom
2. Sort work to be photographed into line copy, halftone copy, and color copy
3. Make exposure tests (line exposure)
4. Use camera filters if necessary for appropriate color copy
5. Expose line work with line film
6. Determine basic density range of screen
7. Determine density range of continuous tone copy with densitometer or gray scale

8. Determine exposure through use of Kodak (negative halftone) computer
9. Make exposure with computer integrated system and/or time system
10. Expose photograph using contact halftone screen
11. Use rapid access materials
12. Use duplicating film for line work

F. Processing Film and Printed Material

1. Mix processing chemicals
2. Develop film to proper density by time and temperature methods
3. Develop film to proper density by gray scale method
4. Develop film to proper density by visual method
5. Dry film
6. Inspect negative for quality and density
7. Run and evaluate test strip from automatic film processor
8. Process negative through automatic film processor
9. Inspect negatives for density, quality and size
10. Process rapid access materials in tray or rapid access processor

G. Contacting

1. Make exposure tests on a contact frame with duplicating and contact film
2. Make a contact print or positive by the contact method
3. Expose for reverse choke and spreads by contact printing
4. Expose combination negatives with pin register by contact printing
5. Use daylight contacting and duplicating films

H. Performing Image Assembly Operation

1. Use the register punch system for multiple exposure
2. Opaque negative imperfections
3. Tape down a masking sheet to a light table
4. Draw all reference and centering lines on the masking sheets
5. Check negatives against dummy layout
6. Lay negatives in position on flat (imposition) and tape
7. Open all areas of material to be printed
8. Scribe lines if necessary
9. Tape halftones and screen tints
10. Angle screens
11. Strip for double burns using pin register
12. Cut Rubylith for color separations
13. Add registration marks and trim marks
14. Inspect finished flat for accuracy
15. Check flat against copy and dummy layout

I. Proofing

1. Make a silverprint or blueline proof in a vacuum frame
2. Use Dylux dry proofing system
3. Use overlay proofing system (by hand and/or machine.)
4. Use powdered toning proofing system (Chromolin)
5. Use laminated proofing system
6. Run press proofs
7. Check proofs under proper lighting conditions
8. Show proofs to customers
9. Strip changes and corrections into flat
10. Make revised proofs

J. Making Plates

1. Check flats for imperfections, scratches, block images, and imposition
2. Position flat on top of plate in register in vacuum frame
3. Expose plate for predetermined time
4. Expose all additional masks or multiple burns required for each plate
5. Process additive plate by hand
6. Process subtractive plate by hand
7. Feed plate through automatic developer or processor
8. Dry plate with clean cloth
9. Make deletions and additions
10. Inspect place for accuracy and quality
11. Preserve plate for future use
12. Orientation to photo-direct platemaker
13. Make a plate with a photo-direct platemaker
14. File flats and plates in proper areas

K. Press Operation

1. Put dampeners in press
2. Change and/or adjust feeder and delivery for different sheets
3. Air, jog, and condition paper
4. Load stock into press feeder
5. Mount plate on press
6. Adjust impression to caliper of paper
7. Feed paper through press & set all guides
8. Measure and mix dampener fountain solution
9. Put dampener fountain solution in press
10. Ink up press
11. Clean gum off metal plate with water
12. Square image up on paper
13. Approve press set-up for position
14. Adjust and maintain color
15. Adjust color head (lateral adjustment) to match up with first head if two-color job
16. Maintain register
17. Correct for washed-out and/or over-inked copy
18. Use reflection densitometer to get uniform ink coverage
19. Wipe off particles of dust or dried ink (hickies) from plate
20. Perforate and score on press
21. Maintain pH in fountain solution (conductivity)
22. Test water in press regularly with litmus paper
23. Run solid color straight through
24. Run two-color line work
25. Run four-color separations
26. Pull progressive proofs
27. Set gauge for spray powder
28. End run
29. Unload stock
30. Remove plate
31. Wash up press
32. Change roller covers
33. Repair electrical malfunctions
34. Repair mechanical malfunctions
35. Lubricate press
36. Clean press

L. Finishing Operations

1. Jog paper manually or by machine
2. Jog paper on table model jogger
3. Jog large sheets of paper
4. Prepare cutting layout
5. Make cuts according to cutting sequence or other instructions given
6. Cut paper with single-knife hydraulic paper cutter
7. Cut paper with fully automatic three-knife book trimmer
8. Cut paper with table-top bar paper cutter
9. Cut paper with cornering machine
10. Set folder according to imposition dummy (discuss folders)
11. Perforate with wheel attached to delivery end of paper folder
12. Perform saddle-wire binding (wire staple)
13. Perform side-wire binding (wire staples)
14. Perform perfect binding
15. Perform thermal binding
16. Perform case binding (hard and soft)
17. Perform ring binding (loose-leaf)
18. Perform postbinding (loose-leaf)
19. Perform spiral wire binding (mechanical)
20. Perform plastic cylinder binding
21. Perform padding
22. Pad carbonless stock
23. Trim job after binding
24. Drill stock
25. Gather and collate by hand and machine
26. Perforate with pin bar on special machine to punch holes in sheet
27. Perforate using rotary perforating machine

M. Paper Handling

1. Receive paper, check invoices, and store
2. Handle paper without damaging, spilling, or shifting its load in stock
3. Count paper (inventory).
4. Transport paper, manually or otherwise

N. Packaging and Preparing for Mailing

1. Perform heat shrink wrapping
2. Wrap package with Kraft paper
3. Wrap packages with cello and tape

4. Box completed job
5. Label ends of boxes
6. Band packages
7. Address labels on package
8. Weigh letters or packages on postal scale to determine mailing costs
9. Sort mail by ZIP code
10. Apply labels - manually or automatically
11. Mail letters or packages
12. Make deliveries to local customers

O. Performing Specialty Operations

1. Use + and - bimatic numbering machine or platen cylinder press
2. Perform die cutting operation on a standard letterpress machine
3. Perform die cutting operation on heavy-duty die cutting machine
4. Laminate materials
5. Perform preventive maintenance

Competency	Cogoli, 1986	IML, 1988 (unit-lesson)	Pr. Techn., 1988	Compr. Gr. Arts, 1983	MAVCC, 1981-82 (three vols.)	Probs. in Math	SFCC AVs
A1	Ch. 2, 4 (intro.)	I-2		Sec. 6, U48	GI-1-B		GA-88-110
A2	Ch. 2	I-3	Ch. 20	Sec. 22, U185	GIII-25-B	U33-35, 37	
A3		I-4	Ch. 20		GIII-25-B		
B1	Ch. 4	II-4	Ch. 3-4	Sec. 3, U23	GI-119-B		GA-88-120
B2	Ch. 4	II-4	Ch. 4	Sec. 3, U24	GI-65-B		
B3	Ch. 7	IV-1	Ch. 3	Sec. 6, U45	GI-129-B	U19	
B4	Ch. 4	II-4, III-5	Ch. 3		GI-21-B	U24	
B5	Ch. 4	I-2	Ch. 3	Sec. 3, U25	GI-19-B		
B6	Ch. 7	IV-3	Ch. 3		GI-1-B		
B7	Ch. 4	II-4	Ch. 4	Sec. 3, U24	GI-119-B		
B8		II-4	Ch. 4		GI-45-C		
B9	Ch. 4-7	II-4	Ch. 4		GI-119-B		
B10	Ch. 4	II-4	Ch. 3	Sec. 3, U23	GI-119-B		
C1	Ch. 5	III-6		Sec. 4, U30	GI-21-C		GA-88-130, 140
C2	Ch. 5						
C3	Ch. 5		Ch. 3		GI-21-C		
C4	Ch. 5	III-8	Ch. 5	Sec. 4, U32	GI-21-C		
C5	Ch. 5		Ch. 5	Sec. 4, U32	GI-21-C		
C6	Ch. 5	III-8		Sec. 5, U35, 148	GI-21-C		
C7	Ch. 6	III-4		Sec. 5, U35, 37, 38	GI-45-C		
C8	Ch. 6	III-4		Sec. 5, U38 and appendix	GI-45-C		
C9	Ch. 6				GI-45-C		

Competency	Cogoli, 1986	IML, 1988 (unit-lesson)	Pr. Techn., 1988	Compr. Gr. Arts, 1983	MAVCC, 1981-82 (three vols.)	Probs. in Math	SFCC AVs
C10	Ch. 6	III-4		Sec. 5, U35, 39	GI-45-C		
C11	Ch 4-6	III-5	Ch. 3		GI-21-B		
C12	Ch. 6	III-4	Ch. 3-4	Sec. 5, U35	GI-45-C		
C13	Ch. 5	III-2	Ch. 2	Sec. 4, U28	GI-21-B		
C14	Ch. 5	III-6		Sec. 4, U29	GI-65-B		
D1	Ch. 7	IV-2	Ch. 4	Sec. 6, U46	GI-119-B		GA-89-145
D2			Ch. 4		GI-119-B		
D3	Ch. 7	IV-2	Ch. 4	Sec. 6, U42	GI-119-B		
D4		I-2	Ch. 4		GI-119-B		
D5	Ch. 7	IV-3			GI-119-B		
D6	Ch. 11	VI-1	Ch. 6	Sec. 7, U59	GII-95-A		
D7				Sec. 6	GI-119-B		
D8	Ch. 7	IV-4		Sec. 6, U47	GI-119-B		
D9	Ch. 7	IV-2	Ch. 4	Sec. 6, U46	GI-119-B		
D10	Ch. 7	IV-3			GI-119-B		
D11	Ch. 5	IV-1	Ch. 3-4		GI-119-B		
D12	Ch. 5	IV-1	Ch. 3	Sec. 4, U31	GI-119-B		
D13	Ch. 7	IV-4	Ch. 4		GI-119-B		
D14	Ch. 7	IV-4	Ch. 4	Sec. 6, U47	GI-119-B		
D15	Ch. 7	IV-4	Ch. 4		GI-119-B		
D16		III-4			GI-45-C		
D17	Ch. 5	I-2			GI-1-B		
D18	Ch. 5-6	III-4			GI-45-C		

Competency	Cogoli, 1986	IML, 1988 (unit-lesson)	Pr. Techn., 1988	Compr. Gr. Arts, 1983	MAVCC, 1981-82 (three vols.)	Probs. in Math	SFCC AVs
D19		III-4			GI-119-B		
E1	Ch. 8			Sec. 7, U53-54	GII-1-A		
E2	Ch. 7	IV-1			GI-1-B, GII-27-A, GII-61-A		
E3	Ch. 8	V-5	Ch. 6	Sec. 7, U61	GII-27-A		
E4	Ch. 8	V-8			GII-27-A		
E5	Ch. 8	V-5	Ch. 6	Sec. 7, U52, 55	GII-27-A		
E6	Ch. 9	V-6	Ch. 7		GII-61-A		
E7	Ch. 9	V-4	Appendix A, Ch. 6-7	Sec. 7, U56	GII-61-A		
E8	Ch. 9	V-4	Ch. 7	Sec. 7, U56	GII-61-A		
E9		V-5	Ch. 7		GII-95-A		
E10	Ch. 9	V-6	Appendix A, Ch. 7	Sec. 7, U57	GII-61-A		
E11	Ch. 11	V-5	Ch. 6		GII-27-A		
E12	Ch. 11	VII-1	Ch. 6		GII-95-A		
F1	Ch. 11	VI-1	Ch. 6	Sec. 7, U55	GII-27-A		
F2	Ch. 11	VI-1	Ch. 6	Sec. 7, U55	GII-27-A		
F3	Ch. 11	VI-1	Ch. 6	Sec. 7, U55	GII-27-A		
F4	Ch. 11	VI-1	Ch. 6	Sec. 7, U55	GII-27-A		
F5	Ch. 11	VI-1	Ch. 6	Sec. 7, U55	GII-95-A		
F6	Ch. 11	VI-1	Ch. 6-7		GII-95-A		
F7		VI-1	Ch. 6		GII-95-A		
F8		VI-1	Ch. 6	Sec. 7, U55	GII-95-A		

Competency	Cogoli, 1986	IML, 1988 (unit-lesson)	Pr. Techn., 1988	Compr. Gr. Arts, 1983	MAVCC, 1981-82 (three vols.)	Probs. in Math	SFCC AVs
F9	Ch. 11	VI-1	Ch. 6		GII-95-A		
F10	Ch. 11	VI-1	Ch. 6		GII-95-A		
G1	Ch. 11	VII-1	Ch. 6	Sec. 7, U58	GII-95-A		GA-88-150
G2	Ch. 11	VII-1	Ch. 6	Sec. 7, U58	GII-95-A		
G3	Ch. 11	VII-1		Sec. 7, U58	GII-95-A		
G4	Ch. 11	VII-1			GII-95-A		
G5	Ch. 11	VII-1	Ch. 6		GII-95-A		
H1	Ch. 12	VIII-12	Ch. 10	Sec. 11, U94	GII-23-B		GA-88-160
H2	Ch. 12	VIII-5	Ch. 10	Sec. 11, U92	GII-1-B		
H3	Ch. 12	VIII-6	Ch. 10		GII-1-B		
H4	Ch. 12	VIII-4	Ch. 10	Sec. 11, U91	GII-1-B		
H5			Ch. 10	Sec. 11, U91	GII-23-B		
H6	Ch. 12	VIII-6	Ch. 10	Sec. 11, U94	GII-1-B		
H7	Ch. 12	VIII-6	Ch. 10	Sec. 11, U92-93	GII-1-B		
H8	Ch. 12	VIII-7		Sec. 11, U93	GII-1-B		
H9	Ch. 12	VIII-9	Ch. 10	Sec. 11, U93	GII-23-B		
H10	Ch. 9	VIII-17			GII-25-A		
H11	Ch. 12	VIII-12	Ch. 10	Sec. 11, U94	GII-23-B		
H12	Ch. 12	VIII-17			GII-23-B		
H13	Ch. 12	VIII-21	Ch. 10	Sec. 11, U94	GII-23-B		
H14					GII-23-B		
H15					GII-23-B		
I1	Ch. 12	IX-1	Ch. 10	Sec. 11, U93			

Competency	Cogoli, 1986	IML, 1988 (unit-lesson)	Pr. Techn., 1988	Compr. Gr. Arts, 1983	MAVCC, 1981-82 (three vols.)	Probs. In Math	SFCC AVs
I2	Ch. 12	IX-1	Ch. 10				
I3		IX-1					
I4		IX-1	Ch. 10				
I5			Ch. 10				
I6	Ch. 12	IX-1	Ch. 13				
I7		IX-1	Ch. 10				
I8		IX-1					
I9	Ch. 12						
I10	Ch. 12	IX-1					
J1	Ch. 13	X-2		Sec. 12, U101	GII-51-B		
J2	Ch. 13	X-2	Ch. 11	Sec. 12, U98	GII-51-B		
J3	Ch. 13	X-2	Ch. 11	Sec. 12, U98	GII-81-B		
J4	Ch. 13	X-2	Ch. 11	Sec. 11, U94	GII-81-B		
J5	Ch. 13	X-2	Ch. 11	Sec. 12, U97, 99	GII-81-B		
J6	Ch. 13	X-3	Ch. 11	Sec. 12, U97,99	GII-81-B		
J7		X-1	Ch. 11	Sec. 12, U99			
J8	Ch. 13	X-2 and 3	Ch. 11		GII-51-B		
J9	Ch. 13			Sec. 12, U101			
J10	Ch. 13			Sec. 12, U101	GII-51-B		
J11	Ch. 13	X-2		Sec. 12, U101	GII-51-B		
J12	Ch. 13	X-1	Ch. 11	Sec. 12, U97	GII-81-B		GA-89-176
J13	Ch. 13	X-1	Ch. 11	Sec. 12, U100	GII-81-B		
J14	Ch. 13			Sec. 12, U101	GII-81-B		

Competency	Cogoli, 1986	IML, 1988 (unit-lesson)	Pr. Techn., 1988	Compr. Gr. Arts, 1983	MAVCC, 1981-82 (three vols.)	Probs. In Math	SFCC AVs
K1	Ch. 16	X1-4			GIII-1-A		GA-88-180, GA-89-185
K2	Ch. 16	XI-3	Ch. 13	Sec. 13, U107	GIII-19-A		
K3	Ch. 16, 21	XI-2	Ch. 13		GIII-19-A		
K4	Ch. 17	XI-2	Ch. 13	Sec. 13, U107	GIII-19-A		
K5	Ch. 16	XI-9		Sec. 13, U108	GIII-19-A		
K6	Ch. 18	XI-6	Ch. 13	Sec. 13, U109	GIII-19-A		
K7	Ch. 17	XI-3	Ch. 13	Sec. 13, U106, 107	GIII-19-A		
K8	Ch. 16-17	XI-4	Ch. 13		GIII-1-B		
K9	Ch. 17	XI-4	Ch. 13	Sec. 13, U103	GIII-1-B		
K10	Ch. 17	XI-5	Ch. 13	Sec. 13 & 20, U107 & 172	GIII-63-A		GA-89-173
K11	Ch. 17	XI-8	Ch. 13	Sec. 13, U108	GIII-63-A		
K12	Ch. 17	XI-8	Ch. 13	Sec. 13, U107	GIII-63-A		
K13	Ch. 17	XI-8	Ch. 13	Sec. 13, U107	GIII-63-A		
K14	Ch. 17		Ch. 13	Sec. 13, U107	GIII-63-A		
K15	Ch. 18				GIII-63-A		
K16	Ch. 17		Ch. 13	Sec. 13, U107	GIII-63-A		
K17	Ch. 20		Ch. 13	Sec. 13, U110	GIII-141-A		
K18	Ch. 9				GIII-141-A		
K19	Ch. 20		Ch. 13		GIII-141-A		
K20	Ch. 17, 21						
K21	Ch. 16	XI-4	Ch. 13		GIII-113-A		

Competency	Cogoli, 1986	IML, 1988 (unit-lesson)	Pr. Techn., 1988	Compr. Gr. Arts, 1983	MAVCC, 1981-82 (three vols.)	Probs. in Math	SFCC AVs
K22	Ch. 16	XI-4	Ch. 13		GIII-113-A		
K23	Ch. 17		Ch. 13	Sec. 13, U108	GIII-63-A		
K24	Ch. 17		Ch. 13	Sec. 13, U104	GIII-63-A		
K25			Ch. 13		GIII-63-A		
K26		IX-1	Ch. 13	Sec. 13, U104	GIII-63-A		
K27					GIII-63-A		
K28	Ch. 17	XI-8	Ch. 13	Sec. 13, U107	GIII-63-A		
K29	Ch. 17	XI-8	Ch. 13		GIII-63-A		
K30	Ch. 13, 17	XI-8	Ch. 13		GIII-63-A		
K31	Ch. 17	XI-8	Ch. 13	Sec. 13, U111	GIII-141-A		
K32	Ch. 16		Ch. 13		GIII-141-A		
K33	Ch. 20				GIII-141-A		
K34	Ch. 20				GIII-141-A		
K35		XI-10		Sec. 13, U111	GIII-141-A		
K36	Ch. 17	XI-10	Ch. 13	Sec. 13, U111	GIII-141-A		
L1	Ch. 21	XI-2			GIII-43-B		GA-88-190
L2	Ch. 21	XI-2			GIII-43-B		
L3	Ch. 21	XI-2			GIII-43-B		
L4	Ch. 15	XII-2		Sec. 18, U154	GIII-43-B	U31-32	
L5	Ch. 15	XII-2		Sec. 18, U153	GIII-43-B	U33-34	
L6	Ch. 15	XII-2	Ch. 19	Sec. 18, U153	GIII-43-B		
L7	Ch. 21	XII-2					
L8	Ch. 15	XII-2			GIII-43-B		

Competency	Cogoli, 1986	IML, 1988 (unit-lesson)	Pr. Techn., 1988	Compr. Gr. Arts, 1983	MAVCC, 1981-82 (three vols.)	Probs. in Math	SFCC AVs
L9	Ch. 21	XII-5		Sec. 18, U152	GIII-43-B		
L10	Ch. 21	XII-3	Ch. 19	Sec. 18, U153	GIII-43-B		
L11	Ch. 21	XII-3			GIII-43-B		
L12	Ch. 21	XII-5	Ch. 19	Sec. 18, U156	GIII-43-B		
L13	Ch. 21	XII-5	Ch. 19	Sec. 18, U156	GIII-43-B		
L14	Ch. 21	XII-5	Ch. 19	Sec. 18, U155	GIII-43-B		
L15	Ch. 21			Sec. 18, U155	GIII-43-B		
L16	Ch. 21	XII-6	Ch. 19	Sec. 18, U157			
L17	Ch. 21	XII-5	Ch. 19	Sec. 18, U155	GIII-43-B		
L18	Ch. 21	XII-5		Sec. 18, U155			
L19	Ch. 21	XII-5		Sec. 18, U155			
L20	Ch. 21	XII-5		Sec. 18, U156	GIII-43-B		
L21	Ch. 21	XII-5	Ch. 19	Sec. 18, U156	GIII-43-B		
L22	Ch. 15	XII-5			GIII-43-B		
L23	Ch. 21		Ch. 19	Sec. 18, U154			
L24	Ch. 21	XII-5		Sec. 18, U152	GIII-43-B		
L25	Ch. 21	XII-4	Ch. 19	Sec. 18, U152	GIII-43-B		
L26	Ch. 21	XII-3		Sec. 18, U152			
L27	Ch. 27	XII-3		Sec. 18, U152			
M1	Ch. 15	XIII-3		Sec. 19, U164-5		U30	GA-88-170
M2	Ch. 15	XIII-3, 4				U36	
M3		XIII-5		Sec. 19, U164-5		U37	
M4							

Competency	Cogoll, 1986	IML, 1988 (unit-lesson)	Pr. Techn., 1988	Compr. Gr. Arts, 1983	MAVCC, 1981-82 (three vols.)	Probs. in Math	SFCC AVs
N1	Ch. 21	XIV-1					
N2	Ch. 21	XIV-1				U29	
N3		XIV-1					
N4		XIV-1					
N5		XIV-1					
N6		XIV-1					
N7		XIV-3					
N8		XIV-3					
N9		XIV-3					
N10							
N11							
N12							
O1	Ch. 17	XV-1	Ch. 2				
O2	Ch. 17, 21	XV-2	Ch. 2				
O3	Ch. 21	XV-2	Ch. 2				
O4		XV-4					
O5		XV-5			GIII-41-A		

NOTE: The following supplemental mediated materials (videos) are also available for purchase from The Media Center, State Fair Community College, Sedalia. For free loan of the videos, contact the Missouri Vocational Resource Center, 800/392-7217.

--Introduction to the Graphic Arts Industry (GA-88-100)
--Offset Quality Control Techniques (GA-89-189)
--Introduction to Screen Printing (GA-89-200)
--Screen Fabrics (GA-89-210)
--Screen Stencils (GA-89-220)
--Squeegees (GA-89-230)
--Techniques of Screen Printing (GA-89-240)